USAF Declass/Release Instructions On File®

Fill 2-12 DM-4 DIOPS OXC-2 R+D-2

25X1A

25X1D

IN 51913

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8815,

RB DSA

SUBJECT: TIRE DAMAGE TO STRUCTURES

RECENTLY AN SR-71 HAD AN INFLIGHT TIRE FAILURE APPROX.

ONE HOUR AFTER TAKEOFF WHICH CAUSED CONSIDERABLE

DAMAGE TO THE WHEEL WELL, I.E. LOSS OF BOTH L AND R

HYDRO SYSTEMS, LEAK IN "B" SYSTEM, LARGE FUEL LEAK, AND

SEVERE STRUCTURAL DAMAGE TO THE UPPER WING PANEL AND

FUSELAGE. FORTUNATELY, THE AIRCRAFT GOT BACK TO

AND LANDED WITHOUT FURTHER DAMAGE.

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THE REASON FOR THIS FAILURE HAS BEEN ATTRIBUTED TO EXCESSIVE GROUND TAXI PRIOR TO TAKEOFF. THE TAXI DISTANCE, INCLUDING ONE 80-KNOT REJECTED TAKEOFF, WAS A TOTAL OF 29,000 FEET WHICH IS CONSIDERABLY IN EXCESS OF THE TIRE MANUFACTURER'S RECOMMENDATION. SINCE THIS ITEM IS NOT ADEQUATELY COVERED IN THE MANUALS, THE FOLLOWING RULES SHOULD BE OBSERVED:

1. TAXI WHICH WILL BE FOLLOWED BY AN IMMEDIATE TAKEOFF SHOULD BE RESTRICTED TO THREE (3) MILES. ABSOLUTE MAXIMUM TOTAL TAXI DISTANCE SHALL BE FOUR (4)
MILES -- 5 MINUTES COOLING AT END OF TAXI BEFORE

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TAKEOFF SHOULD BE ALLOWED FOR EACH ONE-HALF MILE

OVER THREE (3) MILES -- THAT IS 5 MINUTES COOLING AFTER

2-1/2 MILE TAXI, 10 MINUTES COOLING AFTER 4-MILE TAXI.

- 2. TAXI SPEED SHOULD BE RESTRICTED TO MAXIMUM OF 60 MPH.
- 3. EFFECT OF RUNWAY TEMPERATURES RUNWAY TEMPERATURES UNDER 100 DEG. F WILL NOT AFFECT TIRE OPERATING
 CONDITIONS. HOWEVER, FOR RUNWAY TEMPERATURES
 EXCEEDING 100 DEG. F, THE FOLLOWING FACTORS SHOWN
 SHOULD BE APPLIED TO THE TAXI RESTRICTIONS LISTED.

RUNWAY DEG.	F	REDUCTION	FACTOR
100		1.00	
110		•94	
120		.84	
130		.61	

EXAMPLE - 120 DEG. F RUNWAY TEMPERATURE

TAXI DISTANCE - .84 X 3 MILES - 2.52 MILES

THESE RESTRICTIONS WILL BE ISSUED BY T.D.C. TO MANUALS.

AN INVESTIGATION IS IN PROGRESS AT WHICH WILL PROBABLY RESULT IN BEEFING UP THE TIRE CANS. HOWEVER, KITS WILL NOT BE AVAILABLE IN TIME FOR B.S. OPERATION.

SECRET

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